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Beth Pearson-Naul

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Paulo S. Tubel et al.

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Group Art Unit: 3672

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SERIAL NO.: 10/674,248

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Examiner: Tsay, Frank

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FILED: September 29, 2003

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TITLE: "Wellbores Utilizing Fiber Optic-  
Based Sensors and Operating  
Devices"

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Confirmation No.: 3193

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Atty. Docket No.: 014-12049-D3

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**SUBSTITUTE RESPONSE TO OFFICE ACTION OF APRIL 13, 2005**

This is a substitute response to the office action of April 13, 2005. Please disregard the response filed on July 13, 2005. Please amend the application as indicated below.

Reconsideration of the application as amended is respectfully requested. Amendments to the claims start on page 2 of this document. Remarks start on page 10 of this document.

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